# **RF** Exposure Requirements

## 1.1 Product Description for Equipment Under Test (EUT)

### **Client Information**

Applicant: Orion Versand GmbH & Co. KG

Address of applicant: Schaferweg 14 • 24941 Flensburg, Germany

Manufacturer: Hong Kong Passkey Industry Co. Limited

Address of manufacturer: 2/F, Block #6, Hua Feng Industry Park, Datianyang,

Dongfang, SonggangTown, Bao'An District,

Shenzhen, China, 518105

General Description of EUT	
Product Name:	Running Beads Butt Plug RC
Brand Name:	1
Model No.:	54033670000
Adding Model(s):	PAS-AN-0333
Rated Voltage:	Input: DC 3.7V from battery
Battery Capacity:	1
Software Version:	/
Hardware Version:	1
Serial Number:	S01
FCC ID:	2A2W8-W0027

Technical Characteristics of EUT	
Frequency Range:	433.92MHz
Modulation:	FSK
Antenna Type:	Integral
Antenna Gain:	0dBi

#### 1.2 Standard Applicable

According to §1.1307(b)(1) and KDB 447498 D01 General RF Exposure Guidance v06, the following RF exposure evaluation shall to demonstrate RF exposure compliance.

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]  $\cdot$  [ $\sqrt{f(GHz)}$ ]  $\leq$  3.0

Where

- -f(GHz) is the RF channel transmit frequency in GHz
- -Power and distance are rounded to the nearest mW and mm before calculation
- -The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

#### 1.3 Calculation Method

Tx frequency range: 433.92MHz Min. test separation distance: 5mm Max. Field Strength:98.17dBuV/m

Max Power: 2.87

RF channel transmit frequency: 433.92MHz

Result: 0.2551 Limit: 3.0

So the transmitter complies with the RF exposure requirements and the SAR is not required.

Remark: EIRP (dBm) = E (dBuV/m) - 95.3